Acceptance Testing for Strength 501 Concrete Mixes

Airport: _____   Illinois Project: _____

Pour
Start Date: _____   Federal Project: _____

Pour
Finish Date: _____   Mix Design(s) Number: _____

Lot Quantity: _____ Sq. Yds. _____   Yes (   )

Lot Quantity: _____ Cu. Yds. _____   Outlier: No   (   )

1. Test Data

		28 Day Strength	
Lot-Sublot No.	**Cubic Yard**	**Flexural**	**Compressive**
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Mean ($\overline{X}$) _____   **Standard Deviation** (S) _____

2. Quality Indexes

$Q_{(F)} = (\overline{X} - 650psi)/S =$ _____ $Q_{(C)} = (\overline{X} - 4000psi)/S$ _____

3. Percent Within Limits (PWL)

PWL   =   _____   NOTE: PWL is obtained from Table 4.

4. Pay Adjustment   (Table in Special Provisions)

PWL	% Adjustment	
90-100	100	
80-89.9	.50(PWL) + 55.0	
65-79.9	2.0(PWL) - 65.0	→ _____
Below 64.9	Note 1/ of Spec.	

5. Adjustment in Quantities (= % Adjustment x Lot Quantities)Sq. Yds.

Adjustment in Quantities = _____   x   _____   =   _____

Adjusted Sq. Yds.

Resident Engineer: _____

Contractor: _____

AERM-3, Rev. 1/03